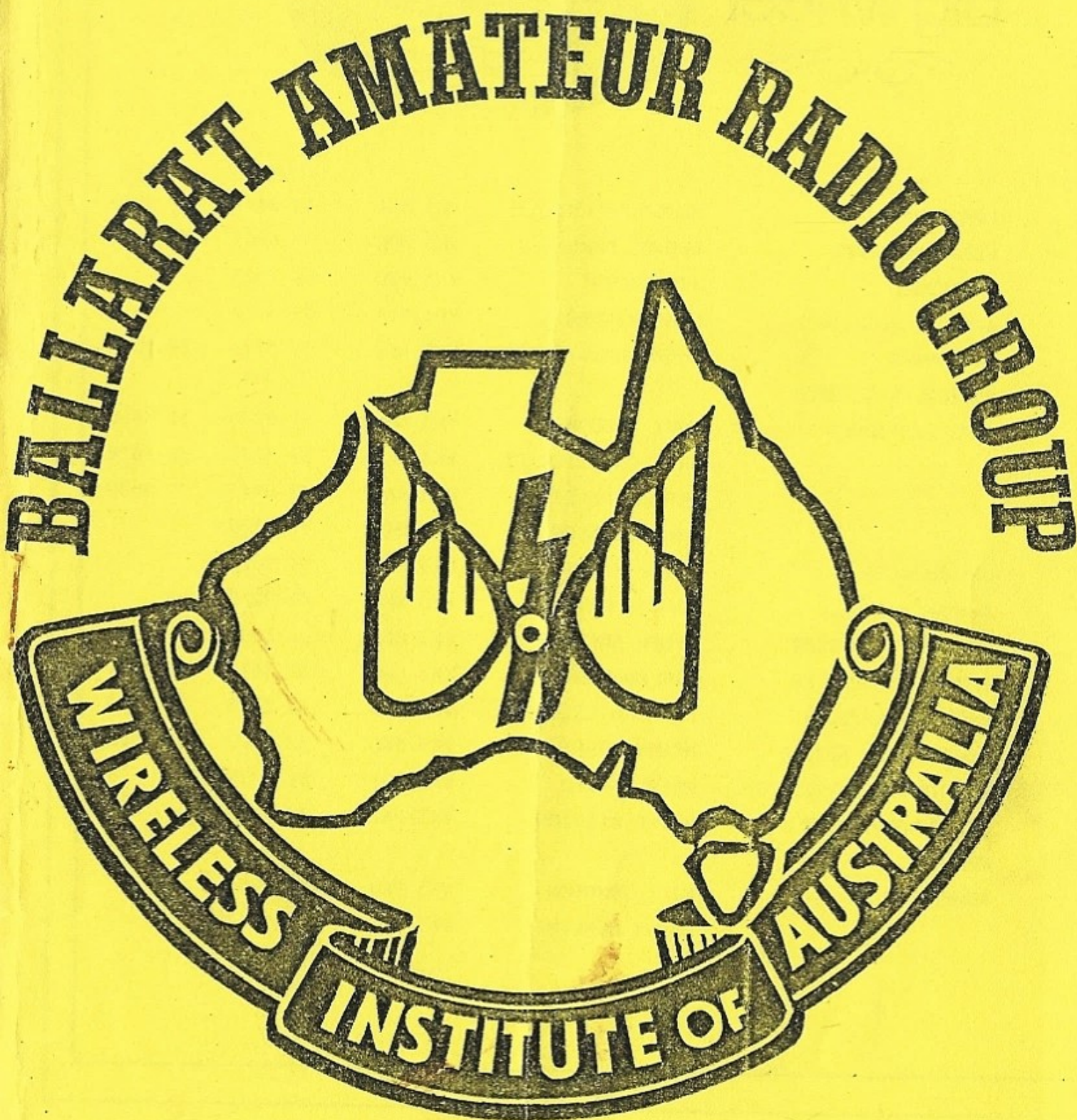


84/03

1

BARC NEWS



March 84

Monthly Newsletter of the Ballarat Amateur Radio Group

REGISTERED BY AUSTRALIA POST, PUBLICATION NO. VBH3397

THE big wheel



			<u>Home</u>	<u>Bus.</u>
<i>PRESIDENT</i>	MURRAY FELSTEAD	VK3 AAI	42 0447	31 5000
<i>VICE-PRESIDENT</i>	GEORGE FOWLER	VK3 DOK	32 6863	39 1954
<i>SECRETARY</i>	JIM WRIGHT	VK3 VZD	32 7563	
<i>ASSIST. SECRETARY</i>	HANK HILVERTS	VK3 NIA	39 3332	
<i>TREASURER</i>	DICK ANTOSIEWICZ	VK3 AEX	32 3273	32 1818
<i>ASSIST. TREASURER</i>				
<i>TECH. OFFICERS</i>	PHIL SEDDON	VK3 AQM	31 5220	31 3166
	DICK ANTOSIEWICZ	VK3 AEX	32 3273	32 1818
	MURRAY FELSTEAD	VK3 AAI	42 0447	31 5000
	IAN ROBINSON	VK3 BTX	32 4139	
<i>QSL MANAGER</i>	CLIFF BILSTON	VK3 PAF	34 7626	
<i>AWARDS MANAGER</i>	MAURIE BATT	VK3 XEX	42 2245	
<i>PUBLICITY OFFICER</i>	GEOFF SMITH	VK3 KLZ	32 1037	
<i>EDUCATION OFFICER</i>	JIM HUMPHRIES	VK3 ANH	32 1613	32 1719
<i>PROPERTY OFFICER</i>	DICK ANTOSIEWICZ	VK3 AEX	32 3273	32 1818
<i>NEWS LETTER EDITOR</i>	HENRY MORITZ	VK3 DXC	32 7569	30 1800
<i>ASSIST. NEWSLETTER ED.</i>	CLEM JARVIS	VK3 YDI	31 4179	
<i>NET CO-ORDINATOR</i>	CLIFF BILSTON	VK3 PAF	34 7626	
<i>WICEN</i>				
<i>COMMITTEE</i>	BILL JOHNSON	VK3 DWJ	40 2288	
	HARRY HEKKEMA	VK3 KGL	35 7563	

B.A.R.G. meets the last FRIDAY of month at the Ballarat Education Centre, Hopetoun St. All correspondence to P.O.BOX 216E.Ballarat East 3350. Victoria. Awards Manager VK3XEX. R S.D. Rokewood Junction . VIC.

Just one more minute...

The meeting was called to order at 7.50pm by Pres. Murray, who welcomed visitors Mark, Des and Evonne, also the guest speaker "Des" and his wife Shirl.

APPOLOGIES: Ted NIZ; Neil NIQ; Eric ZL; XOA ; KQB; IV (?)

MINUTES of the previous meeting, as printed, were confirmed.

TREASURERS REPORT: Gen. a/c \$196.83; 14-day a/c \$707.03;
Special a/c \$123.00

QSL MANAGER Cliff reported 750 out, but none received (again).

AWARDS Laurie reports 2 DX-widows and 4 Goldrush awards applied for and things moving slowly.

CLUB NET is still being well supported, but qualifying hams are not applying for the awards, it seems.

PUBLICITY Club will assist in Begonia car rally and the annual Wendouree "Sunday-Funday" - participants needed.

EDUCATION AOCPC Classes will commence on 28-Feb at North Tech.

PROPERTY OFFICER Dick reported no damage to club equipment on the John Moyle field day, despite gale force winds.

NEWS LETTER Henry STILL requires material and articles, HELP!

HAMVENTION Convener Dick VU reported that the Sebastopol Footy ground had been booked and approaches made to Dick Smith to be guest speaker at the dinner. It was decided to purchase a Yaesu 6-m transceiver for a raffle prize for that occasion.

GENERAL BUSINESS

Ernie DET offered advice and assistance to anyone interested in trying SSTV. Dick AEX distributed WICEN operating procedures and reported that the total points for the John Moyle contest were 7853.

RAFFLE In aid of special fund was won by Evonne, XYL of YMW (4ax)

The meeting then closed and, after a short break, resumed to hear the WIA Victorian QSL manager, Des Clarke, give SOME answers about the bureaus operation (and why it didn't)

Saddest Story of the Month

84/03 4



SAD'DY ARVO ADVENTURES

Stop me if you've heard this one: Seems there were those two dignified, knowledgeable Full-Calls, accompanied by their wives, daughters and grandson etc etc., heading out one fine day for the Mt.Cole reserve for a nice day in the country and a leisurely Barbie LUNCH. Nothing wrong with that, so you might say??? Oughter be more of that sort of thing.

Well, folks, - it didn't quite turn out that way! Lunchtime passed, uphill and downdale they travelled for mile after mile. Confusion reigned supreme and the old navigational skills, so diligently acquired in the boy scouts (yes, but how many years ago was THAT?) weren't quite what they useta be. Finally they arrived....at the WARRAK Cemetery. And just in time for afternoon tea, too. Lunch had been scrapped.

WELL Wda.....its a nice enough place to visit, but..... Cheer up, fellers. Better luck next time. Nobody's perfect!!! (and don't we know it?)

(Courtesy KYLS ADB & BNC)

VK3DOK VK3DET VK3AEX VK3VU VK3NIA VK3KGL VK3YMW VK3ADB
and VK5NSI (how did he get in there???)

HEY ! What a roll up.

Good weather, pleasant bush setting and spectacular driving with no major accidents thankfully, was the order of the day as members of B.A.R.G. dutifully manned the check points at the recent "Begonia Car Rally", deep in the heart of the Daylesford 'high country'.

Every one was treated to skills of another ilk as the drivers wound their way round the course. Perhaps radio ain't so bad after all, where maybe the greatest hazard is hanging off that tower as you adjust that antenna. Hi! Hi!

Thanks guys for the help in creating a successful day and the compliments that flowed from the organisers of the rally were justly deserved.

Volunteers for next year ????????????

*P.R.

TRY THIS !!!

Looking for a test range to check and compare Mobile whips ? That "Tilta Garage Door" is ideal : with a base mounted on front surface and loop underneath for G.D.O. Job's right.

Tests conducted at this QTH indicate only minor change in resonant frequency of antenna when "dipped" on door and then transferred to vehicle.

Geoff ADB.

HEARD

About the the local amateur who was approached recently with an offer for his call sign.

'Oh, boy'. What next ? . Black market C.W. keys !!!

P.R.

84/03

by Murray, VK3RAI.

As there are several hams in the area with computers, I have decided to try and start a column for them.

I own a Commodore 64 computer, but the short Program I will present in this article can be run on most computers that run Basic.

Firstly, I would like to mention that a Commodore 64 and Vic 20 users group is being formed in Ballarat. If you own one of these computers, then please get in touch with me and I can give you all details. Joining a users group is most beneficial, because all members can make copies of each other's programs, so everyone ends up with all the programs for little cost.

The Program I will now present is a short display routine that will be really nifty for all you A.T.V'ers who happen to have computers. If you are an A.T.V'er and don't yet have a computer, then I would strongly recommend that you consider buying one, because they are great for making displays. They all have a video output signal, providing a 1V Peak to Peak, composite video signal, which can be fed straight into your transmitter.

In this Program, line 2 picks two random integers between 0 and 15, which on the Commodore 64 is used to control the border and background colours. Lines 6 to 8 print the heading of the screen and the remaining lines print what is in the inverted commas in line 10 in four columns, two starting from the left and the other two columns starting from the right hand side, with each column adding one letter per line until the full line is printed, then taking off one letter at a time. The screen then clears, another pair of randomly picked border and background colours is chosen and the Program recycles.

Below is the Program. I hope you find it useful.

READY.

```

1 PRINT "J"
2 LET A=INT(RND(1)*15):LET B=INT(RND(1)*15)
3 POKE 53280,A:POKE 53281,B:PRINT " "
4 IF B=1 THEN PRINT "■"
5 PRINT "COMMODORE- 64"
6 PRINT "COMMODORE- 64"
7 PRINT "COMMODORE- 64"
8 PRINT "COMMODORE- 64"
10 LET S$="COMMODORE":REM CHANGE DETAILS IN INV.COMMAS TO SUIT, EG. CALL-SIGN
20 FOR C=1 TO LEN(S$)
30 PRINT LEFT$(S$,C),RIGHT$(S$,C),LEFT$(S$,C),RIGHT$(S$,C)
40 NEXT C
50 FOR C=LEN(S$) TO 1 STEP -1
60 PRINT LEFT$(S$,C),RIGHT$(S$,C),LEFT$(S$,C),RIGHT$(S$,C)
70 NEXT C
75 FOR N=1 TO 1000:NEXT N
80 GOTO 1

```

READY.

NO NONSENSE VALUE

- 1 KENWOOD TS 8303 "as new" fitted with 8.3MHz C.W. Filter.
complete with original packing and
Manuals. Excellent value at \$825:00 O.N.O.
- 1 "NEW" YAESU FT102 Purchased Feb '84. Still under warranty.
Used only on Tx. \$1000:00 O.N.O.

ENQUIRIES To Bob Tester . VK5MV
14 Shepherdson Road
Mt. Gambier . 5920
Sth . AUST.

- 1 only CE55DX 5 Element Tribander (7m Boom) 4 E. on 10m
4 E. on 15m. 3 E. on 20m.

Work's well, but, regretfully must sell or move
tower as this fine beam hangs over stropo
neighbours fence. A steal at \$325:00 . ORO.

Geoff VK3ALB. Tel. 321037.

BROAD-BAND MATCHING TRANSFORMER

by Charlie VK3BRZ

The proliferation of fully solid-state HF transceivers in recent years has sparked many amateurs into going mobile. Certainly their compact size and low power consumption makes them very suitable for this purpose.

However, one problem which needs to be solved is that of matching the antenna to the transmission line; Most rigs will not tolerate an SWR of much more than 1.5 without their internal protection circuitry drastically reducing the output power.

The average mobile antenna exhibits a feedpoint resistance significantly lower than 50 Ohms, typically 15 to 30 Ohms. Most of this will be made up of loss resistance in the loading coil or helical winding and in earth loss due to the poor ground connection which a car body represents. In any case, the SWR can never be better than 1.5 except in the case of the lossiest antennas or a full-sized whip on 10 Meters.

There exist many schemes for matching mobile antennas, but most of them use L-C networks which are fine for fixed-band use (although a bit fiddly) but hopeless for multi-band mobiling. A better and more elegant solution is to use a broad-band matching transformer with a few taps for various transformation ratios; One can then operate any HF antenna on the car and need only select the tap which gives the best match for the particular antenna. Even better, when the antenna is resonated on different parts of its band, no adjustment needs to be made to the matching as would be the case with L-C networks.

The design described here is equal in performance to toroidal types yet is more easily constructed. The materials are readily available, probably from the junk box.

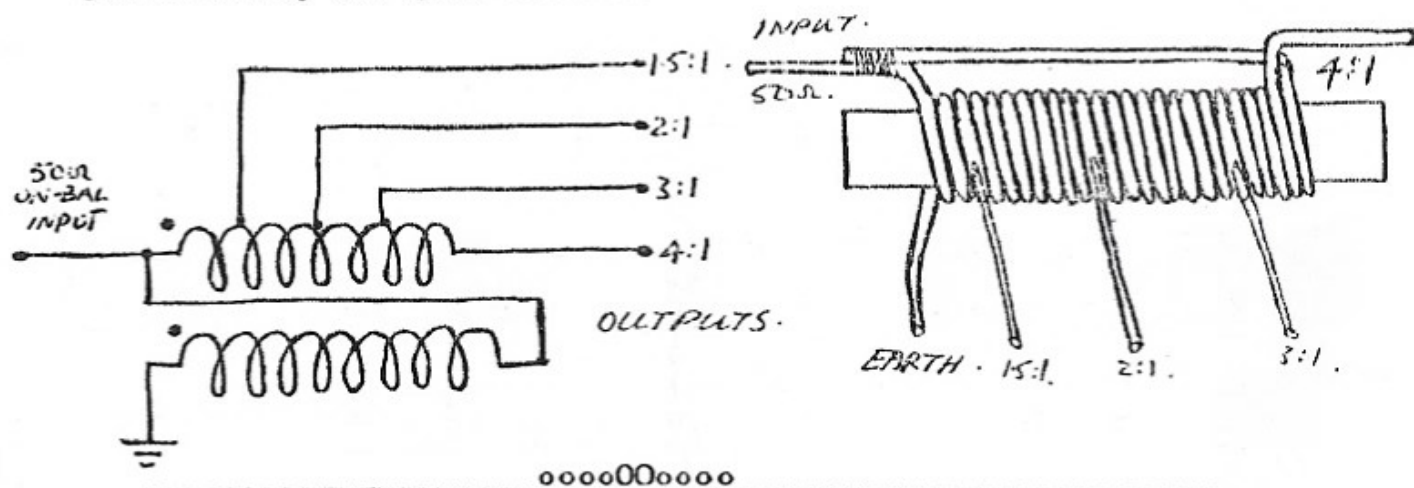
CONSTRUCTION: begins by preparing the ferrite rod as described for the 1:1 balun (last months mag.) The winding is bifilar only and of approx. 15 turns of 18 gauge enamelled copper wire. Use the same method of winding as for the 1:1 balun ie. the wooden dowel method. The number of turns is not critical but the gauge of wire is. Remember that at power levels of around 100W. the current in the low-impedance side can be up to 4 Amps. or more. The taps are made at the 3:1, 2:1, and 1.5:1 points along the winding. If 15 turns are used these points correspond to the 11th turn, 7½ turn, and 3rd turn respectively. Be carefull to put all the taps on the same winding! Each tap can be made by scraping off about ¼ in. of enamel from the turn and soldering a short length of hook-up wire to it. Again remember to make a good solid joint because of the current that will flow.

The unit can be housed in a weather-proof box when completed. I used a small Eddystone die-cast box with 4mm. banana sockets for all the connections. The transformer must be mounted as close to the base of the antenna as possible-- no more than 12cm. or so of lead should be used in joining the transformer to the antenna.

USING THE TRANSFORMER... Initial setting up is simply resonating the antenna as usual with a GDO. Ignore the GDO calibrations and use a receiver tuned to the frequency in question as an indicator. This ensures that the antenna will be resonant at the frequency of operation.

Having tuned the antenna or antennas to resonance, connect the rig to the antenna and select, by trial and error, the tap which gives the lowest SWR on each band. Note.. that some final adjustment in the resonance of each antenna will need to be done since HF mobile antennas are quite narrow in bandwidth.

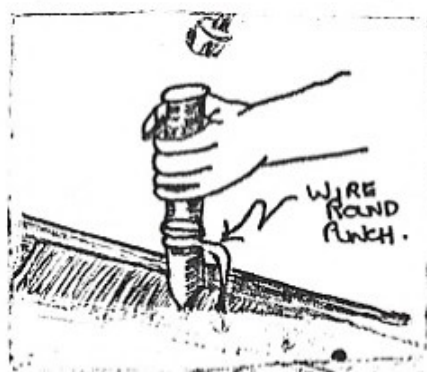
Once the above steps are completed you have an efficient mobile system which allows very quick band changes to be performed. Keep a table in your mobile logbook of the tap positions for each band. Occasionally, however, you may notice that a different tap needs to be used for a particular antenna; this is because the conductivity of the earth over which you are operating is different to that when you adjusted the system. There is no problem, but if possible, operate over ground with the best conductivity for good results.



84/03

JIG FOR SPACING PUNCH MARKS:

When it is necessary to make a series of uniformly spaced punch marks, this simple wire jig will enable you to do the job much quicker and just as accurately as marking the spaces individually. The jig consists of a length of wire wrapped round the punch and terminated in a pointed hook, bent at right angles at the end. The desired space between punch marks determines the length of the projecting end of the wire.



Published in Radio & Hobbies December 1943.

WE HAVE WHAT YOU NEED AT...

WECAM
Communications
Sales & Service
(053)39 2808



YAESU

ICOM and others

11 Malmsbury Str. Wendouree 3355--

CALL US OR SEE BRIAN STARES, VK3 ZBS/NVI

COAX, Rotator and L.T. Cable, Plugs and connectors, Transistors and IC's, Aerials and assorted parts always in stock. Call for prices and information.

EVERYTHING FROM A TO Z IN ELECTRONICS

DANGER--HIGH VOLTAGE!

This is the tale of McPoostoe the cat,
A saga of brave deeds and daring.
It's a tale of the tail, boys, which
once saved the day;
The tale of the tail he was wearing!

Now, McPoostoe was owned by a Radio Ham
Who one day, just by chance, on a trip
Discovered his cat had a thousand volt
drop
'Cross his tail, from the root to the tip!

Now, Radio Hams (or at least so it seems)
Are a specialised type, who, I hear
Are on the alert for a new source of power
To operate Portable Gear!

So McPoostoe the cat was put in a gage,
Electrodes were tied on with care,
And the juice was piped off to the Radio
Shack
To fire up the tubes that were there.

And when the flood came, and the power
was off,
And the panic was on without fail,
This Radio Ham with his rig saved the day
With the juice from McPoostoe's fine tail!

But McPoostoes gone west now, he's with us
no more,
And I'll bet you are wondering why ---
While courting one night in a yard down
the block,
He shorted His Power Supply!

--W7FPP.

Published in Radio & Hobbies May 1943.



12 84/03
WIRELESS INSTITUTE OF AUSTRALIA - VICTORIAN DIVISION
INWARDS QSL BUREAU

1 AMERY STREET ASHBURTON VICTORIA 3147
Barbara Gray VK3BYK phone (03) 25 1885

Dear Fellow Amateur,

I am writing to you in order to inform you of some changes that are currently being made to the operation of the Inwards QSL Bureau (the bureau that receives cards for you from overseas and other parts of Australia).

As of the twelfth of March 1984, the mailing of cards, and maintenance of records at the bureau will be handled by computer. This will lighten the workload involved in operating the inwards QSL bureau, as well as providing a more comprehensive service for you, and simplifying financial arrangements.

For your reference, the details of how the bureau will now operate are given below:

**** CARDS WILL BE HELD at the bureau only for people that fall into one or more of the following categories :

[1] Current financial country members of the Wireless Institute Of Australia (i.e. members of the WIA, residing in any of the Australian states, territories, or possessions, and whose postal address is fifty (50) or more kilometres from the Melbourne GPO).

[2] Current financial members of any other club, society, or institute that is a "member" of the inwards QSL bureau (see [3] below).

[3] Any person, club, society, or institute that becomes a "member" of the inwards QSL bureau by sending in the required details along with money to cover the costs involved in the postage of cards.

**** ALL OTHER CARDS will be sent to the office of the Victorian division of the WIA where they will be stored for a period of time. They will not necessarily be stored in any order, and can only be recovered from the office of the Victorian division by personally searching through the masses of cards during normal office hours. This is because space at the bureau does not permit the storage of vast numbers of "dead" cards, and it is not feasible to maintain order in the "dead card" store at the Victorian division office, since this would be a very time consuming and unproductive task as it is extremely rare that these cards are ever picked up.

**** CARDS WILL BE SENT to members of the inwards QSL bureau whenever a suitable number have amassed for that member. In the case of members of clubs, societies, or institutes, your cards will be sent to your organisation's QSL manager for collection at meetings or other suitable times. These organisations may request that cards be mailed at specific intervals or times to coincide with meetings. Note that when an individual receives large numbers of cards regularly, these will usually be held until sufficient have accumulated to be posted as a small packet rather

than a standard letter.

**** MONEY MUST BE KEPT AT THE BUREAU at all times by all members. This "credit" will be used to cover the cost of posting your QSL cards to you. Each time cards are posted, your credit will be reduced by the value of the stamp plus a small amount that represents the cost of stationary, tape, glue, string, etc that is used in packaging your cards. Each time you receive cards, you will find a statement of your credit standing printed on your wrapper. Should your credit fall below the cost of a posting (i.e. stamp plus stationary, tape, glue, string, etc) at any time, then you will cease to be a member of the inwards QSL bureau. Your details will automatically be deleted from the computer, and any residual credit in your account will be transferred to the WIA country members postage account. It is wise therefore, to ensure a reasonable credit is maintained at all times (i.e. at least \$1.00, with \$2.00 to \$5.00 being a reasonable amount to send in initially, depending on the amount of cards that you expect to receive).

Note that only cash or money orders made out to cash should be sent to the bureau as the clearing of cheques through the WIA account is a slow process and therefore these cannot be accepted.

**** MEMBERS MAY COLLECT CARDS from the bureau in person although it is advisable to ring before calling at the bureau to ensure that there will be somebody there to help you. You are more than welcome to do this. Note that non-members of the inwards QSL bureau cannot pick their cards up in person since their cards are not held at the bureau, but are sent to the WIA Victorian division office as explained earlier.

**** DETAILS MAY BE LODGED AT THE BUREAU if you are an individual by filling in the attached form and sending it in to the bureau along with your money. In the case of clubs, societies, and institutes, money must be accompanied by a list of your current financial members, in alphabetical order by call sign. When sending an update of your member listing, it must be accompanied by a list of additions and a list of deletions since the last list that was sent in. All lists must be in alphabetical order. Country members of the WIA should send only their details on the form provided. No money is needed as your postage is paid by the WIA.

Any envelopes lodged at the bureau have been returned to you with this letter. If you wish to become a member of the bureau, you must send your details to the bureau immediately along with some money as you will otherwise cease to be listed at the bureau on 12/3/84, and your cards will be sent to the WIA Victorian division office until such time as you send in your details. This will occur in the case of both individuals and organisations. If you had stamps or cash lodged at the bureau, then this has been credited to your account and the amount is listed here for you to take into consideration when you send your details and money.

Barbara Gray VK3BYK

LAKE GOLDSMITH "STEAM RADIO" AWARD

THE ANNUAL 'STEAM RALLY' IS TAKING PLACE AGAIN AT LAKE GOLDSMITH THIS YEAR ON APRIL 28TH - 29TH. OPERATORS ARE NEEDED FOR ALL BANDS AND PERSONS INTERESTED CAN GIVE THEIR NAMES AT THE NEXT CLUB MEETING, WHEN DETAILS OF THE OPERATION WILL BE GIVEN TO ALL INTERESTED PARTIES. BE IN IT ! ! !

MAURIE BATT, VK3XEX, CO-ORDINATOR

★ HAVE YOU

AMASSED, COLLECTED, SQUIRRELLED AWAY, STORED, HEAPED, SCUNGED, PACKED, HAMSTERED, ACCUMULATED, PILED UP OR STASHED, PRESERVED, TURFED AWAY (ALMOST) AND TREASURED

ANY JUNK

OR RUBBISH, DEBRIS, LEFTOVERS, ANTIQUES, USELESS YUK, EYESORES, THINGUMMYJIGS, WHATSITS, CHATTELS OR GEAR YOU ALWAYS WANTED TO GET RID OF, IF ONLY YOU COULD

THEN DON'T FORGET

NOR PROCRASTINATE, DISRECOLLECT, LOBOTOMIZE, ERASE FROM MEMORY BANKS, OBLIViate, NEGLECT TO RECALL THAT ANNUAL FEAST OF SUPERFLUOUS TRIVIA AND TRASH

THE BARG JUNK SALE

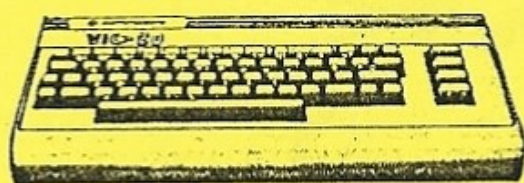
AT THE MARCH MEETINGSEE YOU THERE.....BRING \$\$\$\$\$\$

(WON'T BE QUITE THE SAME WITHOUT GOOD OL' CLEM)

VIC-20 & COMMODORE 64

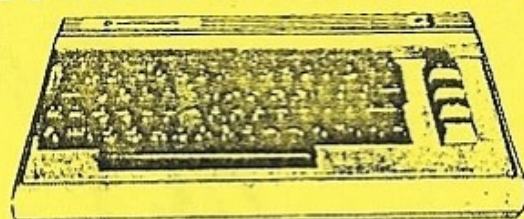
Computers

VIC 20



\$299

COMMODORE 64



\$499

For latest prices & Software info
Daylesford Newsagency
& Joyworld

55 VINCENT ST, DAYLESFORD

Ph. 053-482061 (Andy)

84/03

16

Ballarat

WAMWENTION '84



BE THERE!

®

